

Appendix of Pending Claim

4. A mammalian GDF-1 protein substantially free of proteins with which it is naturally non-covalently associated, wherein said protein is encoded by a nucleic acid that hybridizes under conditions of 65°C and 1M sodium chloride to DNA having the nucleotide sequence as defined in Figure 2 or Figure 11A or 11B and remains bound when subjected to washing at 68°C and 0.3 M sodium chloride/ 30 mM sodium citrate (2X SSC).

5. The protein according to claim 4 which is unglycosylated.

6. The protein according to claim 4 wherein said mammal is a mouse, hamster or human.

7. The protein according to claim 4 wherein said protein is chemically synthesized.

8. The protein according to claim 4 wherein said GDF-1 protein has a GDF-1 amino acid sequence as defined in Figure 11A or 11B.

9. A recombinantly produced GDF- protein having the GDF-1 amino acid sequence given in Figure 2, 11A or 11B.

10. The protein according to claim 9 wherein said protein is unglycosylated.

22. The protein according to claim 4 wherein said GDF-1 protein has a molecular weight of 41K or 38K as determined by SDS-PAGE.

23. The protein according to claim 9 wherein said GDF-1 protein has a molecular weight of 41K or 38K as determined by SDS-PAGE.

24. A process for purification of GDF-1 protein comprising expressing GDF-1 protein in a mammalian cell line, said GDF-1 protein being secreted into the medium, and isolating said GDF-1 protein from said medium to obtain a product which is substantially free of protein with which it is non-covalently associated, wherein said protein is encoded by a nucleic acid that hybridizes under conditions of 65°C and 1M sodium chloride to DNA having the nucleotide sequence as defined in Figure 2 or Figure 11A or 11B and remains bound when subjected to washing at 68°C and 0.3 M sodium chloride/ 30 mM sodium citrate (2X SSC).

25. The process according to claim 24 wherein said GDF-1 protein is unglycosylated.

26. The process according to claim 24 wherein said GDF-1 protein has a GDF-1 amino acid sequence as shown in Figure 2.

27. The process according to claim 24 wherein said GDF-1 protein has a GDF-1 amino acid sequence as shown in figure 11A or 11B.

28. The process according to claim 24 wherein said GDF-1 protein is encoded by a human nucleotide sequence.

29. The process according to claim 24 wherein said GDF-1 protein is encoded by a mouse nucleotide sequence.

30. The process according to claim 24 wherein said GDF-1 protein has a molecular weight of 41K or 38K as determined by SDS-PAGE.

31. The protein according to claim 4 wherein said GDF-1 protein has a GDF-1 amino acid sequence as defined in Figure 2.

32. The protein according to claim 9 wherein said protein has the GDF-1 amino acid sequence given in Figure 2.

33. The protein according to claim 9 wherein said protein has the GDF-1 amino acid sequence given in figure 11A or 11B.